CLAIMS
1. A method for forming a high strength hydrogel

medical implant comprising:

preparing a hydrogel solution; injecting the solution into a mold; causing said molded solution to gel; washing said molded gel in a physiologic solution; dehydrating the molded gel and packaging the implant.

- 2. The method as set forth in claim 1 wherein said washing takes place for about one day to twelve weeks.
- 3. The method as set forth in claim 2 wherein the washing takes place from two weeks to twelve weeks.
- 4. The method as set forth in claim 2 wherein the physiologic solution is .9% phosphate buffered sodium chloride solution.
- 5. The method as set forth in claim 4 wherein the saline solution further contains a potassium carbonate solution.
- 6. The method as set forth in claim 5 wherein the potassium carbonate solution is between about .025 M and .05 M.
- 7. The method as set forth in claim 6 wherein a .05 M potassium carbonate solution is used for a first portion of the washing and a .025 M potassium carbonate solution is used for a later portion of the washing.

- 8. The method as set forth in claim 1 wherein the dehydration reduces the water content of the gel to its approximate in vivo equilibrium water content.
- 9. The method as set forth in claim 8 further including irradiating the molded gel after said washing.
- 10. The method as set forth in claim 8 wherein said molded gel is hydrated to about 80% water content prior to irradiation.
- 11. The method as set forth in claim 4 wherein said washing in said saline solution is for at least one day.
- 12. The method as set forth in claim 11 wherein said buffered sodium chloride solution includes potassium phosphate.
- 13. A process for treating a hydrogel comprising:
  forming a hydrogel and
  washing the hydrogel in a saline solution including
  potassium carbonate.
- 14. The process for treating a hydrogel as set forth in claim 13, wherein the saline solution contains between .025 and .05 M potassium carbonate.
- 15. The process for treating a hydrogel as set forth in claim 14, wherein the washing takes place for at least one day.
- 16. The process for treating a hydrogel as set forth in claim 15, wherein the washing takes place for between one day and 12 weeks.

- 17. The process for treating a hydrogel as set forth in claim 13, wherein the washing solution is heated.
- 18. The process for treating a hydrogel as set forth in claim 17 wherein the solution is heated to 37°C.
- 19. The process for treating a hydrogel as set forth in claim 13, wherein the solution is a .9% phosphate buffered sodium chloride solution with between .025 M and .25 M potassium carbonate added thereto.
- 20. The process as set forth in claim 19 wherein the potassium carbonate added is between .025 M and .05 M.